

Engineering & Technology Educators

Volume 1, Issue 2

Indiana Tech Flash

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How Far Can You Chunk?

What is in a name? That which we call autumn by any other name would smell as sweet. It is nor the weather nor falling leaves, nor the tractor's engine roar as they collect the fruits of the earth, nor any other part belonging to autumn.....

OK...sorry but, I was thinking, what could be more fun than doing an activity in your school? AND then it hit me....doing one *OUT-SIDE* of your school?

I know several of you already do trebuchets and ballistic devices, how about Punkin Chunkin? Lets take the next step and showcase our students' abilities to use Science, Technology, Engineering and Math by having them compete to see which TEAM can throw a small pumpkin or other gourd in an open area. It could also be a part of a

fund raising effort, an open house, community celebration or parent night.

Not only can you involve the community, parents and students you can take the opportunity to collaborate with the math and science teachers in your school.

I think it could be a great learning experience for your student, parents, teachers, community, counselors, and administration.... NOT to mention the publicity for your class. Nothing like shameless self-promotion!!

I am currently working on a possible lesson plan/unit on this very idea and would love some input. Send me your ideas, photos, links, and stories if you are willing to share!!

Here are a few links that I found so far in my re-

search. See what you think of these resources. Just click on the word or picture.











Don't miss the 2010 World Punkin Chunkin Championship Thanksgiving night on Science Channel and Science Channel HD



Links & Resources

12

Since 1986, Sussex County, Delaware has been home to the annual Punkin Chunkin World Championships — a three-day festival where hardcore engineers and backyard tinkerers trailer their gigantic, home built contraptions with one common goal: to launch eight to 10-pound pumpkins as far as mechanically possible.



http://science.discovery.com/ tv/punkin-chunkin/

America's Best Careers 2010: Science and Technology—by U.S. News Staff

There's an "app" for everything these days, as consumers make technology a critical role in every part of their lives. Computer software engineers make much of it possible, while computer systems analysts get companies on the road to technological efficiency.

[Read more about America's Best Careers 2010.]

Information technology intersects plenty with environmental and medical science in today's growth careers. Biomedical engineers apply the science of engineering to the problems of the human body and medical care. Meteorologists and hydrologists use increasingly sophisticated technology to monitor the earth—whether its water or its weather.

Computer software engineer; Systems analyst; Network architect; Biomedical engineer; Environmental science technician; Hydrologist; Environmental engineering technician; Civil engineer; Meteorologist

LINK: http://money.usnews.com/money/careers/articles/2009/12/28/the-50-best-careers-of-2010.html

Top 20 Job Skills Demanded in Indiana

Indiana employers most often look for these skills:

1 Work Cooperatively as A Team Member - good/clear communication, good questions, good compromising abilities, effective cooperation.

2 Consistently Apply Good Listening Skills - listen with full attention, repeat back instructions to make sure they are correct, rephrase what you have heard in your own words.

3 Maintain a Safe Work Environment - follow rules and help others to follow them; keep your area clean and organized.

4 Consistently Follow Safety Procedures

5 Follow Detailed Instructions

6 Load and Unload

7 Ability and Willingness to Move Heavy Objects

8 Manage Time Effectively - organization, follow-through, multitasking.

9 Use Hand Tools

10 Use Basic Math - add, subtract, multiply, divide; figure fractions; all at least at the 10th grade level.

11 Acquire and Evaluate Information - use good logic and judg-

ment.

12 Multitask

13 Make Effective Decisions

14 Apply Industry Terms and Concepts - learn the lingo and the ideas.

15 Follow Emergency Procedures

16 Use Power Tools Safely

17 Perform Basic Assembly Tasks

18 Organize & Work With Detailed

Office and/or Warehouse Records

19 Apply Technology to Tasks - stay up to date on all work-related technology.

20 Follow and Give Instructions
Accurately



NASA News-





ISS EarthKAM Fall 2010 Mission

Middle school educators are invited to join NASA for the International Space Station EarthKAM Fall 2010 Mission from **Oct. 12-15, 2010**. Find out more about this exciting opportunity that allows students to take pictures of Earth from a digital camera aboard the International Space Station

SS EarthKAM is a NASA-sponsored project that provides stunning, high-quality photographs of Earth taken from the space shuttle and the space station. Since 1996, ISS EarthKAM students have taken thousands of photographs of Earth by using the World Wide Web to direct a digital camera on select spaceflights and, currently, on the International Space Station.

For more information about the project and to register for the upcoming mission, visit the ISS EarthKAM home page www.EarthKAM.ucsd.edu

If you have questions about the Earth-KAM project, please e-mail <u>ek-help@earthkam.ucsd.edu</u>.

This month in Exploration

85 Years Ago

October 26, 1925: Lt. James H. Doolittle of the United States Air Service won the Schneider Cup Race flying a Curtiss-R3 C-2 seaplane racer in Baltimore. He also broke the seaplane speed record by attaining 245.7 mph during the race.

75 Years Ago

October 30, 1935: The First Boeing B-17 "Flying Fortress" prototype crashed on takeoff at Wright Field in Ohio. The control locks were left on during flight-testing. Despite the crash, the United States Army Air Corps was interested in using the plane as a strategic bomber. The "Flying Fortress" would eventually be flown by the U.S. in World War II.

40 Years Ago

October 20-27, 1970: The former USSR launched the Zond 8 towards the moon from an Earth orbiting platform, the Tyazheliy Sputnik. The spacecraft transmitted images of earth and of the lunar surface, and obtained various scientific measurements.

25 Years Ago

October 3, 1985: NASA launched space shuttle Atlantis (<u>STS-51J</u>) from NASA's Kennedy Space Center, Fla. on its first flight. The shuttle crew deployed a classified satellite for the United States Department of Defense.

20 Years Ago



Lt. James H. Doolittle of the United States Air Service and his Curtiss-R3 C-2 seaplane. Credit: NASA info

October 6, 1990: NASA launched space shuttle Discovery (<u>STS-41</u>) from NASA's Kennedy Space Center, Fla. with the Ulysses solar spacecraft aboard. Ulysses was designed by the European Space Agency (ESA) to explore the heliosphere of the sun.

10 Years Ago

October 11-24, 2000: NASA launched space shuttle Discovery (<u>STS-92</u>) from NASA's Kennedy Space Center, Fla. Discovery docked with the International Space Station. The crew installed a base structure for the U.S. solar array (the "Z-1 Truss") and an orbiter docking station for the U.S. segment of the space station (the "Pressurized Mating Adapter 3"). They also completed four space walks.

http://www.nasa.gov/exploration/thismonth/this month oct10.html

E-mail your submissions to margot.sigur@wgbh.org (Please put "ITEEA" and "Design Squad" in the subject line of the email.)

Or post them to Facebook at:

http://www.facebook.com/pages/Design-sign-Squad/62328461927?ref=ts (You'll have to become a fan first!)

We look forward to finding out more about your experiences with *Design*Squad!

DESIGN SQUAD

PBS's Design Squad is seeking quotes and photos from teachers using Design Squad in their classrooms. Your submission may be selected for use in a series of articles to be published in ITEEA's The Technology and Engineering Teacher magazine. All submissions are welcome! We are particularly interested in hearing positive experiences from teachers and seeing photos of students engaged in the following activities:

Kick Stick
On Target
Helping Hand
Harmless Holder
Sky Glider





INDIANA Core 40 with Technical Honors (THD)

State Recognized Certifications for the Core 40 with Technical Honors Diploma Indiana Department of Education - Spring 2010

The certifications listed may be used in meeting the "state-approved industry recognized certification" option of Indiana's Core 40 with Technical Honors Diploma. Certifications are listed by the corresponding Career & Technical Education course title and are reviewed by the Indiana Department of Workforce Development, Indiana Department of Education, Indiana Commission for

Higher Education, and the Indiana Association of Career & Technical Education Districts (IACTED). Newly added certifications are listed in the underlined and Italicized text. Please note that not all state course titles have an associated list of certifications. Requests for including additional certifications to this list will be considered by the certification selection committee.

For comparison of **Core 40 Diplomas** go to:

http://www.doe.in.gov/sservices/counseling/docs/comparison_new_diplomas.pdf



http://www.msscusa.org/index.htm

DOE Code	Engineering & Technology Education - Indiana State Approved Course Title	IN CTE Area	State/National Certificates
4784	Manufacturing Systems	Engineering & Technology Education	Manufacturing Skills Standards Certification (MSSC)
4796	Manufacturing Process	Engineering & Technology Education	Manufacturing Skills Standards Certification (MSSC)

WELCOME TO THE IDOE— pages of interest

There are many times that I get asked where is? Often times I direct that question to the Department of Education website. In this section I have highlighted several areas that you might need throughout the year. If you can think of any others to be added please send an email.

General Education Links

INDIANA DEPARTMENT OF EDUCATION

http://www.doe.in.gov/

INDIANA APPROVED COURSE TITLES

http://www.doe.in.gov/publications/courses.html

TEACHER LICENSE—look up

http://dc.doe.in.gov/public/EducatorLookup/ TeacherInquiry.aspx

TEACHER LICENSE—renewing or adding

http://www.doe.in.gov/educatorlicensing/

Engineering and Technology Education Links

ETE-general

http://www.doe.in.gov/octe/technologyed/

TECHNOLOGY EDUCATION STANDARDS

http://dc.doe.in.gov/Standards/ AcademicStandards/PrintLibrary/ technology.shtml

ETE CURRICULUM MODEL w/links

http://www.doe.in.gov/octe/technologyed/curriculum model.html

DUAL CREDIT

http://www.doe.in.gov/octe/technologyed/dualcredit.html

INDIANA COLLEGE AND CAREER PATH-WAYS

http://www.doe.in.gov/pathways/

COLLEGE AND CAREER PREPARATION

http://www.doe.in.gov/octe/

SUPER MILEAGE CHALLENGE-IMSTEA

http://www.doe.in.gov/octe/technologyed/

Engineering & Technology Education WEBEX

<u>WebEx</u> is an easy way to share ideas with anyone, anywhere

It combines real-time desktop sharing with phone conferencing so everyone sees the same thing while you talk. It's far more productive than emailing files and struggling to get everyone on the same page over the phone. And it can often eliminate the need for people to travel and meet on site.

you can use it from any computer

(Windows, Mac, Linux, or Solaris)
-- as well as your iPhone, Blackberry,
or any other WiFi or 3G-enabled
mobile device. There's no complicated installation. Participants don't
need to be WebEx subscribers to
join online

Topic: ETE Teacher Conference

Date: Thursday, October 14, 2010 **Time:** 1:00 pm, Eastern Daylight Time

Meeting Number: 640 642 219 Meeting Password: not required

To Join online: 1. Go to https://indiana-doe.webex.com/indiana-doe/j.php?
ED=135735707&UID=0&RT=MiMxMO%3D%3D

To join the audio conference only:1-866-699-3239

You can view a short IDOE-produced online tutorial video at: http://media.doe.in.gov/WebEx/help/WebExUserVideo.html





students. We develop tools so the students may identify their occupational interests, hone in on appropriate educational pathways, transform into STEM career candidates and become employed in gateway STEM jobs. A total of 100 area high school juniors and seniors are recruited to become STEM Scholars affording them opportunities for tutoring, mentoring, job shadowing, internships, field trips, college-level credit courses, workshops about college selection and financial aid, financial literacy training, scholarships, and job placement.

Mentoring is a vital feature of STEM Scholars. It creates a relationship between the student and a professional who cares about him or her. By changing their perspective of what STEM offers, you, the Mentor, can start impacting your Scholars' life. Sometimes it may be as simple as discussing career goals, ambitions, or what college is like.

The Mentor can be the participant's touchstone in his or her area of interest, helping the participant, likely a first-generation college student, find his or her way through the intimidating maze of higher education while being a role model when facing day-to-day issues.

Join us in shaping the lives of the next generation of STEM leaders.

www.stemworksindiana.org



The Hoosier Environmental Council's Our Place Program: A Hands On Approach to Environmental and Civics Education

Our Place is the Hoosier Environmental Council's K-12 Place-Based Education project, which combines environmental education with civic engagement and student voice. Our Place facilitates student-driven projects mental issues within their own co based on en

Background on Our Place

- The Our Place project is based on nationally renowned environmental educator David So renowned environmental educator David Sobel's book Place-Based Education, Connecting Classrooms and Communities
- Place-based education emphasizes hands-on, real world learning experiences; enhances student appreciation for the natural world; and develops ent awareness of civic responsibility.
- Discovery and self-directed inquiry give students ownership of the issues they choose to study while meeting state academic standards.
- Sobel describes it as "a starting point to teach language arts, mathematics, social studies, science, and other subjects across the curriculum'



Teachers participating in the workshops will receive

- Sub pay for attending the workshop (if held during the week) or a \$100 stipend (if held on a Saturday)
- A personal copy of David Sobel's book Place-Based Education Connecting Classrooms and
- Copies of The Kid's Guide to Social Action by Barbara A. Lewis and How to Change the World-Social Entrepreneurs and the Power of New Ideas by David Bornstein for their school corporation's professional library

Teachers attending a workshop and signing the Our Place contract will be required to complete an Our Place project with at least one class during the 2010-2011 school year, to participate in evaluation of the project, to meet with a resource person at least 3 times during the school year, to set up an end-of-the-project presentation in which students share their project with the public and to write an outline of their project for the HEC website.

To help with their semester-long Our Place project, teachers will receive

- A \$300-stipend for classroom supplies related to the project
 \$50 for a student presentation and celebration of final projects
- Assistance from a resource person who will help identify guest speakers, supplies and materials for the project.

Learn more by contacting Trish Whitcomb, Our Place Coordinator, at twhitcomb@hecweb.org

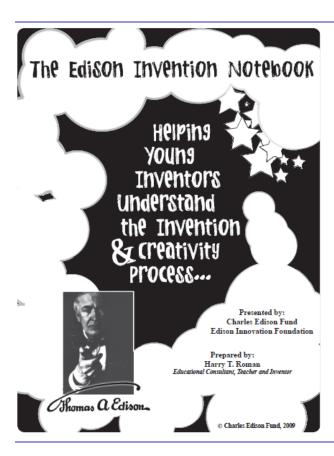


NATIONAL ENGINEERS WEEK FOUNDATION **OPENS REGISTRATION** FOR 19th ANNUAL FUTURE CITY® COMPETITION

Students from Nearly 40 Regions Across The Country To Be Tasked With Engineering, Designing and Developing Virtual and On-Site Health Care Systems for Clinics and Hospitals of Future Generations

2011 Future City National Finals February 18th—22nd





Engineer's Note Book Information

"Many photos show Edison at various stages of his life busily recording his experiments and ideas in his laboratory notebooks. In fact, Edison filled about 4,000 laboratory notebooks, the legacy of which is now being analyzed by scholars and technology historians."

- What is an Invention Disclosure/Notebook?
- Why is an Invention Disclosure/Notebook Impor-
- What This Invention Notebook Will do for Your Students
- Patents and What They Are
- Commercializing Your Patents
- Some Tips to Using the Invention Notebook
- Some Invention Challenges to Get Student Creativity Rolling!
- Getting Started
 - 1) Understanding and Defining the Problem
 - 2) Solving the Problem.



Engineering & Technology Educators

VOLVO

PRESENTED BY

Construction Equipment

We are proud to announce that Chicago will host a Regional Rally of the AEM Construction Challenge presented by Volvo Construction Equipment!

The main website for Construction Challenge is up and running. Find out all the facts and figures here. Regional Rallies on January 15th, 2011 will have 3 hands-on Challenges. These Rally Challenges are designed so that a team need only spend 6 to 8 hours of research on a local infrastructure issue such as roads, bridges, drinking water and wastewater before coming to the Rally. A team may also benefit from practicing some Instant Challenges to develop teamwork skills, but that is completely optional. Advancing teams then will build on the Regional Rally Challenges to prepare for the Finals. Advancing teams will be sponsored by an AEM member and receive materials for Finals, a travel stipend, and opportunity for additional prizes, scholarships and internships.

Teams may register now until the team roster is full at 50 teams. Informational packets and pre-Rally surveys are mailed out after payment for registration is received. Permission from school administrator and parents for both the Regional Rally and the Finals must be submitted prior to the Regional Rally. This allows for prompt travel processing for advanc-

ing teams. The figure shows the timeline for the Construction Challenge season. The main work for teams is between the Regional Rally and the Finals.

Click on the Link to go to the Web-



For Classroom Use

Animated Engines

provides you with animated illustrations that show the inner workings of a variety of engines. Animated Engines features the inner workings of:

- Internal combustion engines,
- · steam engines,
- Stirling engines

And much more! These are great for illustrating the basic workings of engines. Visit the site below to find out more.

http://www.animatedengines.com/

Helping Teachers Help Kids

Teachers Treasures

You can stock up on donated classroom essentials at the Teacher's Treasure shop in Indianapolis. They offer over 300 classroom items ranging from pencils to file cabinets and desk chairs all items are drasti-cally marked down. For more information about the program visit http://www.teacherstreasures.org/pages/about.php

Engineering is Elementary

The EiE program, developed by the Boston Museum of Science, fosters engineering and technological literacy among children. EiE lessons not only promote (STEM) learning, but also connect with literacy and social studies. Examples of elementary engineering activities will be presented by Christine Michael, Science Resource Teacher at Fort Wayne Community's John S. Irwin Elementary Math/Science Magnet school.

http://www.sciencecentral.org/ EngineeringIsElem.htm

IMSTEA—To all Super Mileage Challenge Coaches



As many of you remember, the Sullivan High School Super Mileage
Team tried to host a Super Mileage
Challenge "Fun Run" last year before the race at Indianapolis. It was apparent that the timing of that event did not work for most of the teams. Our team has put together some preliminary information along with a new date that we would like to share with your team. This would be a good opportunity to field test your car, have

some fun and possible work out any bugs before the race in Indianapolis. If you are interested please contact Mr. Brandon Small at

<u>bsmall@swest.k12.in.us</u> or 812-268-6301. Here are the only details that we have at this time.

The event would take place on **Saturday November 6, 2010**

The event would be at the Sullivan County Airport from 9:00am to 5:00pm

10 - 15 teams allowed to participate for the 1st year

Team slots will fill up on a first come first serve basis

Entry fee of \$10 per team

Event will be more relaxed compared to the Indianapolis race

The event will be competitive in different categories other than MPG

Indiana State University

The Indiana State University College of Technology collaborates with high schools to provide opportunities for students to earn college credit for Project Lead the Way (PLTW) classes in a wide variety of programs.

Courses:

Introduction to Engineering Design

Principles of Engineering

Digital Electronics

Aerospace EngineeringBiotechnical Engineering

 Civil Engineering and Architecture Computer Integrated Manufacturing

Engineering Design and Development

For additional contact information see the flyer below!!



IUPUI

Scholarships for Indiana students that have taken the PLTW courses

- Electrical and Computer Engineering Technology Project Lead the Way Scholarship
- Construction Technology Project Lead the Way Scholarship
- Mechanical Engineering Technology Project Lead the Way Scholarship

http://www.engr.iupui.edu/prospective/PLTW.pdf

Currently on the IUPUI website—For the School of Science and Technology incoming Freshman

- Melba Schumacher Scholarship for Mechanical Engineering
- Commitment to Engineering Excellence
- Carrier Corporation Scholarship

http://www.iupui.edu/~scentral/freshman/inmajorspecific.html



Ball State University Dual Credits for Ball State's Major in Technology Teacher Education program

6 hours of PLTW credits may be used to cover program requirements in the Major in Technology Teacher Education.

To qualify students must:

- complete the Principles of Engineering
- course at a certified school,
- pass with no lower than a "B" grade
- score at least 70% on the end-ofcourse assessment exam

A second higher-level PLTW course, following the same program and assessment criteria, or completion of the International Baccalaureate sequence in Design & Technology with a score of 4.0, may be used to cover the directed elective requirement in the program.

Link to BSU Technology Teacher Ed. http://www.bsu.edu/technology/tte/ PLTW courses that fulfill this second 3-hour requirement include

- Digital Electronics,
- Engineering Design & Development.
- Civil Engineering & Architec-
- Aerospace Engineering, and
- Computer-Integrated Manufacturing.

Vincennes University- PROJECT EXCEL PROGRAM INFORMATION



have earned a UNIVERSITY grade of 'C' or Project Lead The Way higher in Introduction to Engi-

Students must

neering & Design and Principles of Engineering to be dual enrolled in DRAF 140, ARCH 221 or DRAF 101. There are no fees.

To be approved, faculty must provide PLTW teaching credentials to Project EXCEL. Students will be dual enrolled in both PLTW and Digital Electronics or Computer Integrated Manufacturing courses.

> Contact Project EXCEL Educational Coordinator Robyn Haase at 812-888-4086 or email rhaase@vinu.edu

For other VU Project Excel class information got to:

http://www.doe.in.gov/octe/ technologyed/docs/ VU_Project_EXCEL_2009-



Cool Stuff!!

Google Sketch Up Pro-FREE

Google is offering Indiana schools free licenses to Google Sketch Up Pro, a 3D modeling application for engineering, architecture, and design. License and installation information is available immediately to school administrators through the online community Google Geo Education in the Learning Connection. This community will be available to Indiana educators to support use of Google Sketch Up and Google Earth within the class-

room. Licenses are obtained by sending a request to join the Google Geo Education community in the Learning Connection. Members will be able to download license keys and instructions for installation across single machines as well as network labs. Licenses are available for both Mac and Windows operating systems.

Learning Connection

https://learningconnection.doe.in.gov

Google Sketch Up Pro



Quotes, pictures, and puzzles

Engineering:

An optimist will tell you the glass is half-full; the pessimist, half-empty; and the engineer will tell you the glass is twice the size it needs to be

Technology:

Coming together is a beginning; keeping together is progress; working together is success.

-Henry Ford

Education/teaching:

I never teach my pupils. I only attempt to provide the conditions in which they can learn.

-Albert Einstein (1879 - 1955)

Education's purpose is to replace an empty mind with an open one.

-Malcolm Forbes (1919 - 1990),

TECHNOLOGY QUIZ

- The United States Supreme Court declared that this man invented the radio.
- 2. Who made the first light bulb?
- 3. Who is given credit for inventing the neon light?
- 4. In 1793 the first system of communicating over long distances via flag, what is the word for this system?
- 5. Who invented the telegraph key?
- 6. Who's ides was it to put a bell on the telephone so people would know when someone was calling?

Answers are on the last page

VOGUE ILLUSION

What do you see?



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State Conference — Look at the NEW Career Pathways

Teachers, Administrators and University persons received the first viewing of the newly developed career path-ways at the annual Indiana ETEI/ACTE Fall Conference. During sessions on Saturday, attendees had a chance to critique the developed pathways, give suggestions, and ask questions about implementation. The IDOE is currently looking for instructors who would like to pilot the new developed career pathways.

The Career Pathways initiative is a three year project. During that time 40 career pathways will be developed. During the process, secondary and postsecondary instructors, industry representatives, and IDOE Curriculum Specialists team up to develop aligned sequences of secondary and, in most cases, postsecondary courses that lead to an industry-recognized credential or technical certification, or an associates or baccalaureate degree at an accredited postsecondary institution, or a registered apprenticeship.

The teams will begin developing additional pathways in Phase two of the project starting late fall into winter. teachers, University faculty, and community business person, who would like to help develop the next batch of pathways are welcome to through their hat into the ring to help guide the direction of the Pathways.

To view the Career Pathways go to http://www.doe.in.gov/pathways/CareerPaths2010-PathwayPlans.html

At that DOE page you can also find nomination forms to participate in the next round of pathways development.

or call Kelli McGregor @ 317-232-6990 or email: kmcgregor@doe.in.gov



Sven & Ole—ITEEA Conference Promo!!

http://www.voutube.com/watch?v=zcCfeFV0lv4



To join ITTEEA, Click How to Join/Renew



Start planning now!!

ITEEA's 73rd Annual Conference

Minneapolis, MN March 24- 26, 2011 Get the latest STEM Education news and updates - FREE. Sign up for "STEM Connections" at

https://www.iteea.org/Forms/STEMconnectionsform.htm

Follow ITEEA on Twitter and Facebook.

Go to www.iteea.org/Networking/networking.htm

Google Sketch Up Pro-FREE

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and Google Earth within the class-room. Licenses are obtained by sending a request to join the Google Geo Education community in the Learning Connection. Members will be able to download license keys and instructions for installation across single machines as well as network labs. Licenses are available for both Mac and Windows operating systems.



TECHFLASH

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http://www.doe.in.gov/ octe/technologyed/

is a magazine and website for technology,

career/technical, and applied science edu-

Expanded Digital Edition now avail-

Indiana Project Lead

IN-PLTW website aimed to provide

help to teachers, administrators, parents, and students find information

http://www.tech.purdue.edu/pltw/index.html

For the free subscription form,

Techdirections

able. Click to view.

cation.

click here.

The Wav

about PLTW.

Schedule of Events

- * October 1st—All Listservs go to Learning Communities
- * October 1st—National Lab Day entries due
- * October 13th—IUPUI Motor Sports Day
- * Innovation Summit—October 20th-22nd
- * LEGO Education TETRIX Workshop—October 22 IUPUI
- October 29th—IMSTEA letter of Intent due
- * November 2nd—PLTW Counselor's Conference
- National ITEEA conference— March 24 –26th

Technology Quiz answers

☆

☆

☆

- N. Tesla
- 2. Joseph Swan
- 3. Georges Claude
- Semaphore

5. Alfred Vail—Morse's partner

Links



http://pbskids.org/dragonflytv/



Engineers Week 2011 is February 20-26 http://www.eweek.org/Home.aspx

ASEE's eGFI brand platform!

Creative Education Publication, Web Site and E-newsletter Inspire America's Engineers of Tomorrow

ASEE continues to enhance its eGFI brand. Highlighting the eGFI brand platform is the 4th edition of eGFI - Engineering, Go For It. eGFI is the colorful, inspiring magazine designed to attract middle-school and high-school students, particularly minorities and young women, and their parents, teachers and counselors to the exciting world of engineering and technology. Published bi-annually, eGFI has reached over 1.7 million K-12 readers since its inception in 2003.





http://www.istemnetwork.org/index.cfm

http://www.doe.in.gov/octe/facs/IACTE



https://learningconnection.doe.in.gov/ Login.aspx



Engineering/Technology **Educators of Indiana**

ttp://www.etei.net/index.html



http://www.iteea.org/EbD/Resourses/EbDres ources.htm